

Title (en)
COLLECTIVE SWITCHING FROM A DIFFERENTIAL SIGNALLING COMMUNICATION MODE TO A SINGLE-ENDED COMMUNICATION MODE UPON THE DETECTION OF A FAULT

Title (de)
KOLLEKTIVES UMSCHALTEN VON EINEM DIFFERENZSIGNALISIERUNGS-KOMMUNIKATIONSMODUS ZU EINEM EINTAKT-KOMMUNIKATIONSMODUS BEI DER ERFASSUNG EINES FEHLERS

Title (fr)
COMMUTATION COLLECTIVE D'UN MODE DE COMMUNICATION À SIGNALISATION DIFFÉRENTIELLE À UN MODE DE COMMUNICATION UNILATÉRAL LORS DE LA DÉTECTION D'UN DÉFAUT

Publication
EP 4243352 A1 20230913 (EN)

Application
EP 22161031 A 20220309

Priority
EP 22161031 A 20220309

Abstract (en)
An apparatus comprising a first and second terminal configured to couple the apparatus to a first and second bus wire of a communication bus; a transceiver arrangement for communicating with one or more network nodes via the communication bus, the transceiver arrangement configured to provide and receive differential signalling according to a communication scheme to/from the communication bus, wherein the communication scheme defines at least a voltage to be used to provide said differential signalling; the apparatus configured to: based on a fault detection signal indicative of the occurrence of a fault in at least the communication bus, transmit a reconfiguration signal for the network nodes and wherein at least part of the reconfiguration signal has a high-voltage-level comprising a voltage higher than that defined in the communication scheme for said differential signalling; and wherein said reconfiguration signal is configured to cause the network nodes to switch single-ended signalling.

IPC 8 full level
H04L 12/40 (2006.01)

CPC (source: CN EP US)
H04L 12/40 (2013.01 - CN); **H04L 12/40169** (2013.01 - EP US); **H04L 41/0654** (2013.01 - US); **H04L 2012/40215** (2013.01 - CN EP US)

Citation (search report)

- [Y] US 2017371754 A1 20171228 - HOFMAN OFER [IL]
- [Y] US 2018359167 A1 20181213 - DU XINYU [US], et al
- [A] US 10785066 B1 20200922 - VAN DIJK LUCAS PIETER LODEWIJK [DE]
- [A] US 2015346259 A1 20151203 - JIANG SHENGBING [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
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DOCDB simple family (application)
EP 22161031 A 20220309; CN 202310116132 A 20230215; US 202318172142 A 20230221